

**AMENDMENTS TO THE CLAIMS WITH MARKINGS TO SHOW CHANGES  
MADE, AND LISTING OF ALL CLAIMS WITH PROPER IDENTIFIERS**

1. (Currently amended) An electric machine with, comprising:  
a cylindrical magnet arrangement ~~[[2]]~~; and  
a cooling device for cooling the magnet arrangement ~~[[2]]~~,  
~~characterized in that~~ wherein the cooling device has a coolant channel (7), ~~by~~  
~~means of which~~ for distributing a coolant ~~can be distributed~~ essentially  
uniformly in the a circumferential direction of the cylindrical magnet  
arrangement ~~[[2]]~~.
2. (Currently amended) The electric machine as claimed in claim 1, ~~which has~~  
further comprising a housing ~~[[1]]~~, the coolant channel ~~[[7]]~~ being part of  
the housing ~~[[1]]~~.
3. (Currently amended) The electric machine as claimed in claim 1 ~~[[or 2]]~~,  
wherein the coolant channel ~~[[7]]~~ surrounding completely surrounds a  
circumference of the magnet arrangement (2) ~~completely on the~~  
~~circumference~~.
4. (Currently amended) The electric machine as claimed in ~~one of the~~  
~~preceding claims~~ claim 1, wherein the coolant channel (7) ~~being~~ is interrupted  
diagonally opposite a coolant entry ~~[[8]]~~.
5. (Currently amended) The electric machine as claimed in ~~one of the~~  
~~preceding claims~~ claim 1, wherein ~~a laminated core of~~ the magnet  
arrangement ~~[[2]]~~ has a laminated core forming a wall of the coolant  
channel.

6. (Currently amended) The electric machine as claimed in ~~one of the preceding claims~~ claim 1, wherein the coolant channel (7) ~~being~~ is arranged upstream of the cylindrical magnet arrangement ~~[[ (2) ]]~~ in ~~the~~ an axial direction.
7. (Currently amended) The electric machine as claimed in ~~one of the preceding claims~~ claim 1, wherein the coolant channel (7) ~~being~~ is open in one or both axial directions, ~~and being capable of being covered with further comprising~~ a bearing shield ~~[[ (4) ]]~~ and/or an annular cover ~~[[ (10) ]]~~ for covering the coolant channel.
8. (Currently amended) The electric machine as claimed in ~~one of the preceding claims~~ claim 1, wherein one or more coolant entries (8) ~~being~~ are arranged on the coolant channel ~~[[ (7) ]]~~ radially and/or axially with respect to the cylindrical magnet arrangement ~~[[ (2) ]]~~.
9. (Currently amended) The electric machine as claimed in ~~one of the preceding claims~~ claim 1, ~~which has further comprising~~ a motor terminal junction box ~~[[ (16) ]]~~, wherein the coolant channel (7) ~~being~~ has a reduced in its dimension in ~~the~~ a radial direction in ~~the~~ a region of the motor terminal junction box ~~[[ (16) ]]~~.
10. (Currently amended) The electric machine as claimed in ~~one of claims 2 to 9~~ claim 2, wherein the housing (4) ~~consisting of~~ is constructed in the form of a pressure plate structure.
11. (Currently amended) A method for cooling an electric machine, ~~which possesses~~ having a cylindrical magnet arrangement ~~[[ (2) ]]~~, by comprising the steps of:  
the conduction of introducing a coolant stream around the cylindrical magnet arrangement ~~[[ (2) ]]~~, characterized in that and

distributing the coolant stream, after being introduced into the electric machine at the commencement of the a cooling operation, ~~is distributed~~ essentially uniformly ~~on the~~ about a circumference of the magnet arrangement ~~[[ (2) ]]~~.

12. (Currently amended) The method as claimed in claim 11, wherein the coolant stream ~~being~~ is distributed on the magnet arrangement ~~[[ (2) ]]~~ completely ~~on~~ about the circumference before it ~~is~~ conducted further in a radial or axial direction.
13. (Currently amended) The method as claimed in claim 11 ~~[[or 12]]~~, wherein the coolant stream, when being conducted around the magnet arrangement ~~[[ (2) ]]~~ in a circumferential direction, is conducted directly past a laminated core of the magnet arrangement ~~[[ (2) ]]~~.
14. (Currently amended) The method as claimed in ~~one of claims 11 to 13~~ claim 11, wherein the coolant stream ~~being~~ is distributed in a circumferential direction upstream of the cylindrical magnet arrangement ~~[[ (2) ]]~~ in ~~the~~ an axial direction, before it ~~is~~ being conducted ~~via~~ about the magnet arrangement ~~[[ (2) ]]~~.
15. (Currently amended) The method as claimed in ~~one of claims 11 to 14~~ claim 11, wherein the coolant stream, after being distributed in the circumferential direction, ~~being~~ is conducted ~~further on~~ in both axial directions.